

Global Synthetic Oil Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Synthetic Oil market size is expected to reach \$ 4270 million by 2032, rising at a market growth of 5.4% CAGR during the forecast period (2026-2032).

In 2025, global synthetic oil production reached approximately 144 kilotons, the average price is 20000 usd/ton. Synthetic oil is the synthetic oil made by chemical methods, In the production process, the selection of a variety of natural substances for chemical decomposition, and then a variety of other substances for synthesis, finally produced synthetic oil. Synthetic oils can change the ingredients for a smoother start and better fuel economy. Longer oil change cycle, longer engine life, reduce maintenance rate; The engine block is cleaner due to the superior cleanness of synthetic oils.

Market Concentration and Key Players:

From an international perspective, the market for synthetic engine oil is highly concentrated, mainly concentrated in developed countries such as Europe, America and Japan. For example, Mobil and Valvoline and other large manufacturers; from the domestic point of view, synthetic engine oil manufacturers include Longpan Technology and Jiangsu Gaoke Petrochemical.

Manufacturing Processes and Market Trends:

Synthetic engine oil is a kind of high performance lubricating oil prepared by chemical synthesis method. The core of its manufacturing process lies in the synthesis of base oil and the precise formulation of additives. Base oils mainly include poly α -olefins and esters, which are prepared by polymerization, catalysis and other chemical reactions, replacing traditional mineral oils. The production process usually starts from the preparation of raw materials, that is, the selection of high-quality base oil and various functional additives, followed by the mixing of base oil under strict control, and the addition of antiwear agent, antioxidant, cleaning dispersant, viscosity index improver and other additives in turn, through uniform stirring to ensure that it is fully mixed, and finally adjust the viscosity, antiwear, antioxidant and cleaning properties of the product

to meet specific standards. It is worth noting that the synthesis process of truly synthetic engine oil base oils (such as PAO, esters), such as polymerization or esterification of olefins, is the key to distinguishing them from mineral oils and semi-synthetic oils.

The synthetic oil market is showing a continuous growth trend, which is mainly due to the development of the global automotive industry and the rising consumer demand for high-performance lubricating products. The future market growth momentum will focus on several key directions. The rapid popularization of new energy vehicles puts forward higher requirements for high temperature resistance, oxidation resistance and electrochemical stability of engine oil, which directly promotes the demand for high-performance synthetic engine oil. The increasingly stringent environmental regulations are driving the industry to develop environmentally friendly products such as low volatility, long life, bio-based and degradable products. Intelligentization is also an important trend, such as the use of AI algorithms to optimize oil formulations and even the development of intelligent engine oils with sensors that can monitor equipment status in real time. In addition, the production technology of synthetic engine oil is also constantly improving, and innovations such as the application of nano-additives further improve the wear resistance and thermal stability of products. Overall, the synthetic oil market will focus more on high performance, environmental protection and intelligence in the future.

This report studies the global Synthetic Oil production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Synthetic Oil and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of Synthetic Oil that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Synthetic Oil total production and demand, 2021-2032, (K MT)

Global Synthetic Oil total production value, 2021-2032, (USD Million)

Global Synthetic Oil production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K MT), (based on production site)

Global Synthetic Oil consumption by region & country, CAGR, 2021-2032 & (K MT)

U.S. VS China: Synthetic Oil domestic production, consumption, key domestic manufacturers and share

Global Synthetic Oil production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K MT)

Global Synthetic Oil production by Degree of Synthesis, production, value, CAGR, 2021-2032, (USD Million) & (K MT)

Global Synthetic Oil production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K MT)

This report profiles key players in the global Synthetic Oil market based on the following parameters - company overview, production, value, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Mobil, Valvoline, Pennzoil, Shell Rotella, Royal Purple, Liqui Moly, AMSOIL, Castrol, Lucas Oil, Red Line, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Synthetic Oil market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (K MT) and average price (USD/MT) by manufacturer, by Degree of Synthesis, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global Synthetic Oil Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Synthetic Oil Market, Segmentation by Degree of Synthesis:

Synthetic Blend Oil

Full Synthetic Oil

Global Synthetic Oil Market, Segmentation by Standard:

API

ACEA

ILSAC

Global Synthetic Oil Market, Segmentation by Viscosity:

Low Viscosity

Medium Viscosity

High Viscosity

Global Synthetic Oil Market, Segmentation by Application:

OEM

Aftermarket

Companies Profiled:

Mobil

Valvoline

Pennzoil

Shell Rotella

Royal Purple

Liqui Moly

AMSOIL

Castrol

Lucas Oil

Red Line

TotalEnergies

Chevron Inc.

Idemitsu K?san

ENEOS

Compton Technology Co., Ltd.

Nulon Products Australia

Medallion Plus (PetroChoice)

Hi-Tec Oils

Lopal Technology

Jiangsu Gaoke Petrochemical Company Limited

Key Questions Answered:

1. How big is the global Synthetic Oil market?
2. What is the demand of the global Synthetic Oil market?
3. What is the year over year growth of the global Synthetic Oil market?
4. What is the production and production value of the global Synthetic Oil market?
5. Who are the key producers in the global Synthetic Oil market?

6. What are the growth factors driving the market demand?

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